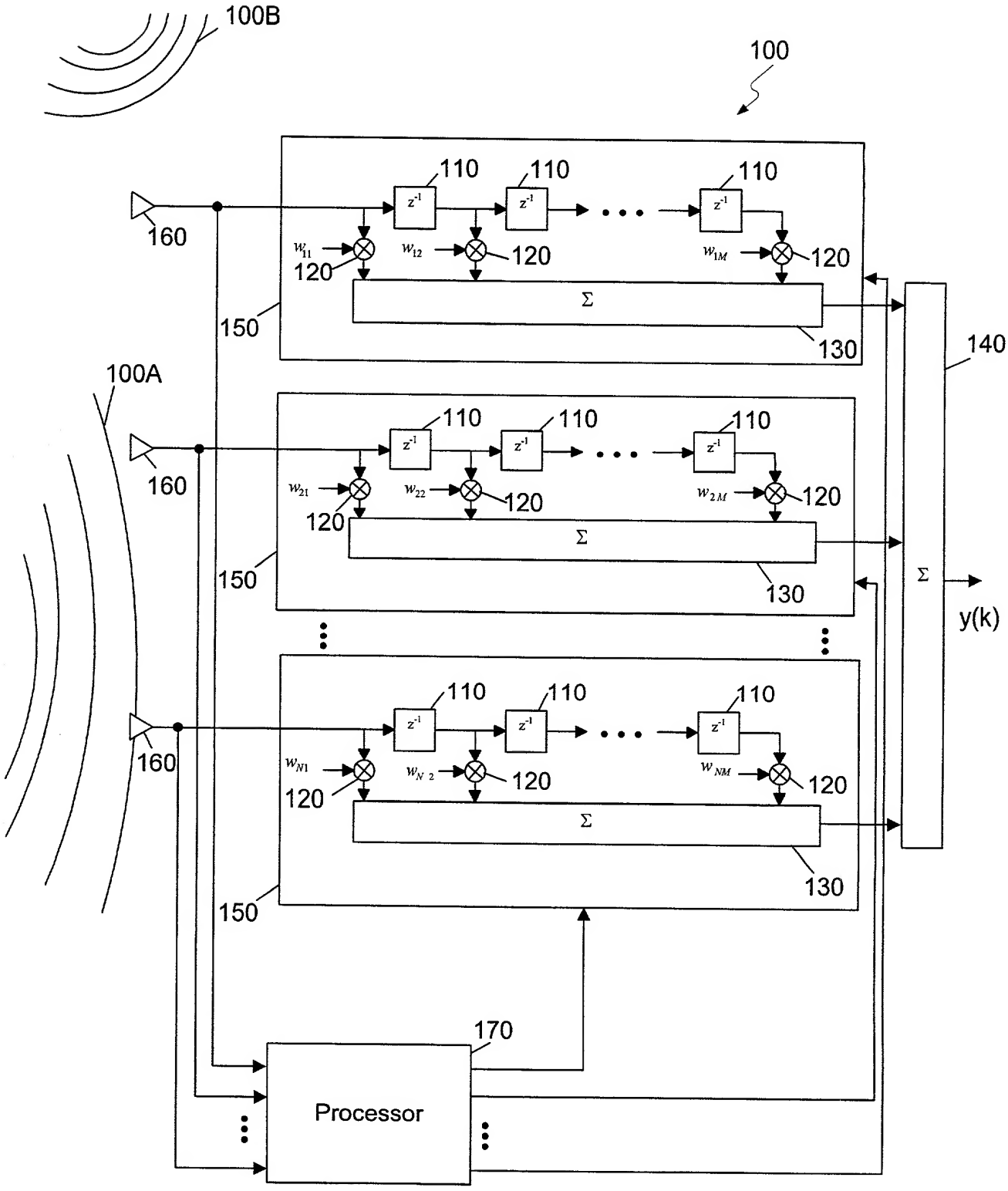


Fig. 1

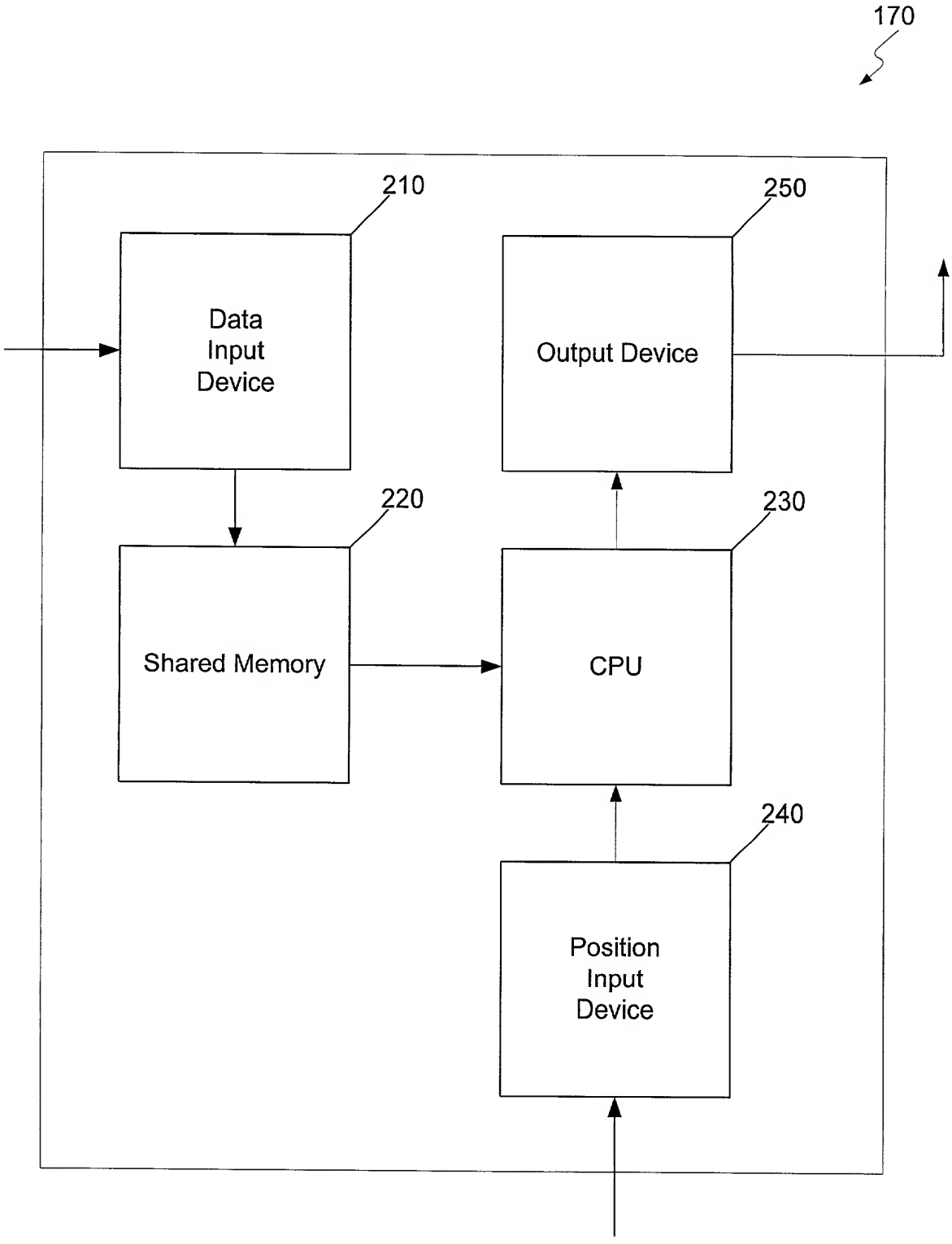
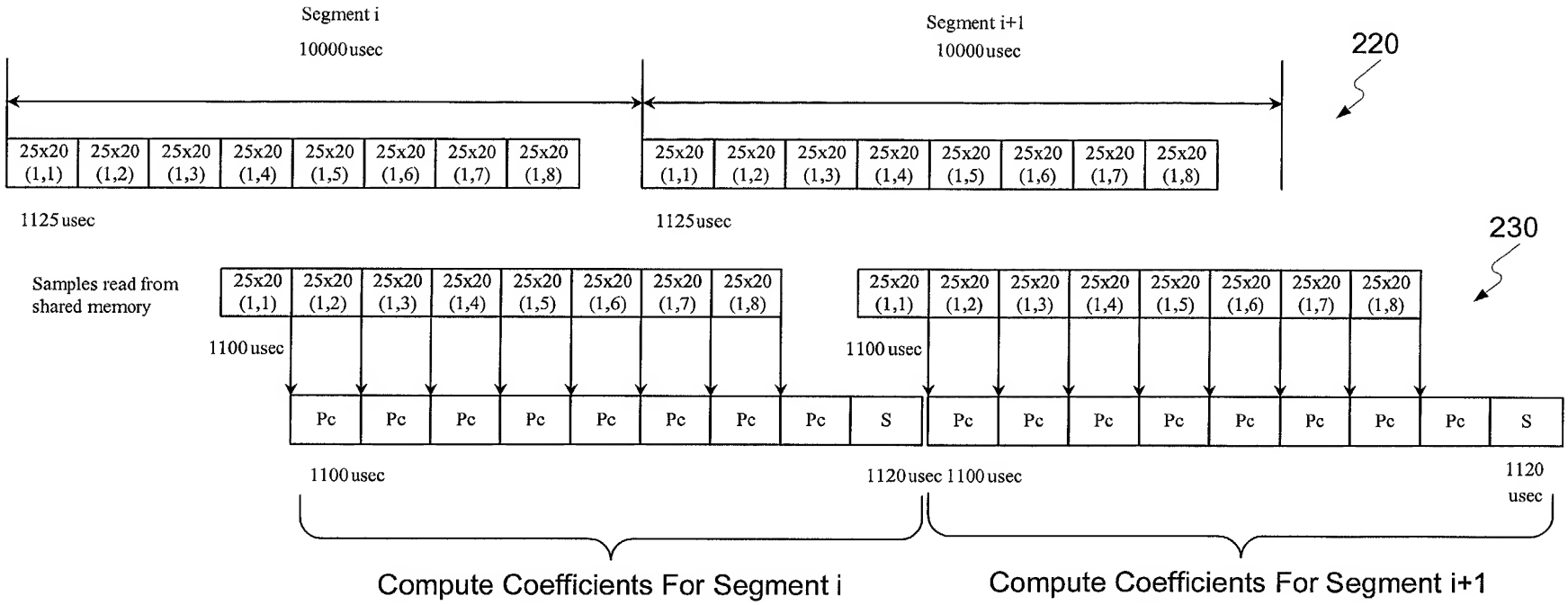

170
210
Data
Input
Device
250
Output Device
220
Shared Memory
230
CPU
240
Position
Input
Device

Fig. 2



25x20 (1,5) 25 vectors of size (1x 20), (segment 1, block 5), evenly spaced in time: 1125 microseconds

Pc Compute partial covariance: 1100 microseconds

S LU decomposition, solve equations for two positions, write coefficients to output register: 1120 microseconds

FIG. 3

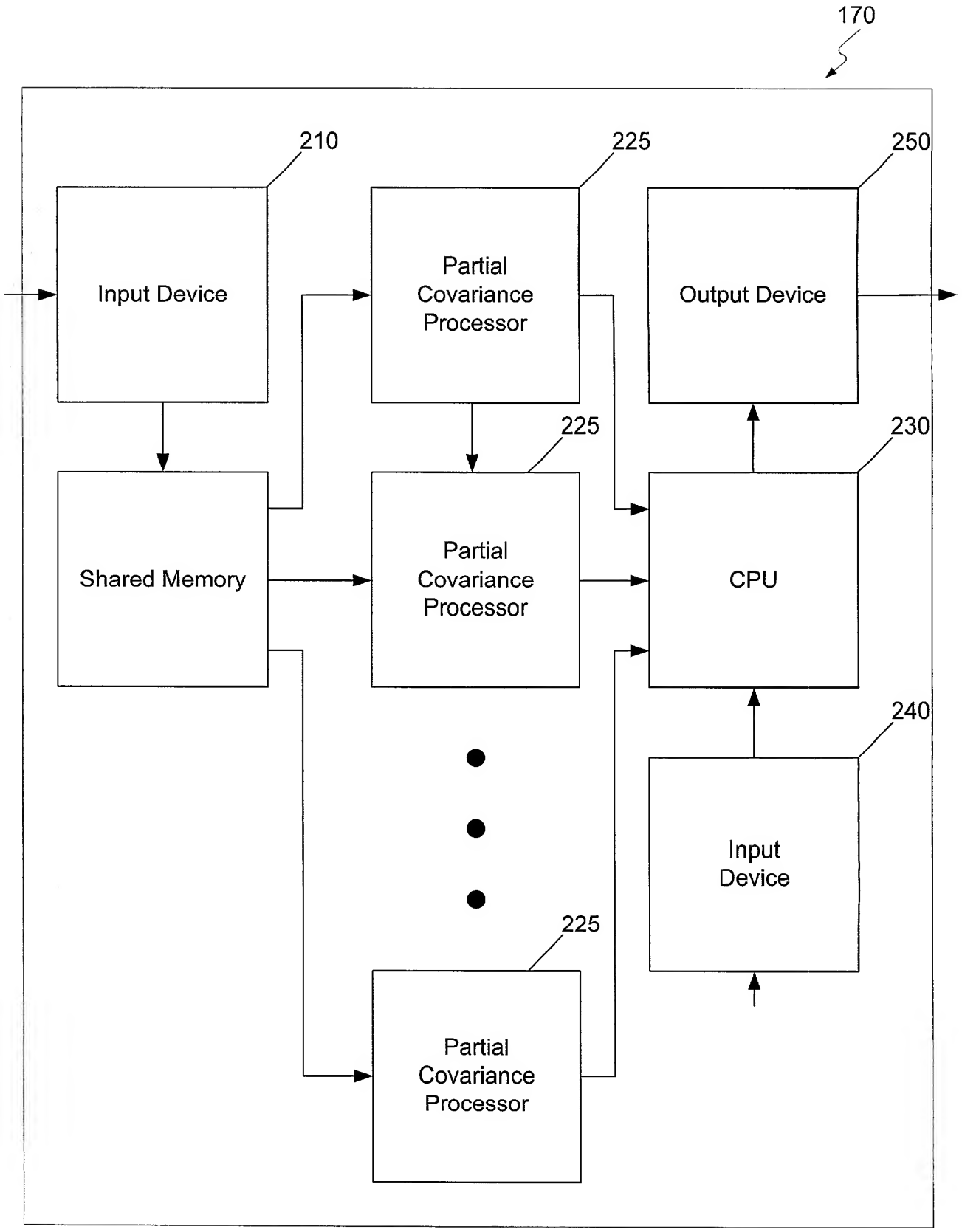

170
210
Input Device
225
Partial Covariance Processor
250
Output Device
225
Shared Memory
Partial Covariance Processor
230
CPU
240
Input Device
225
Partial Covariance Processor

Fig. 4

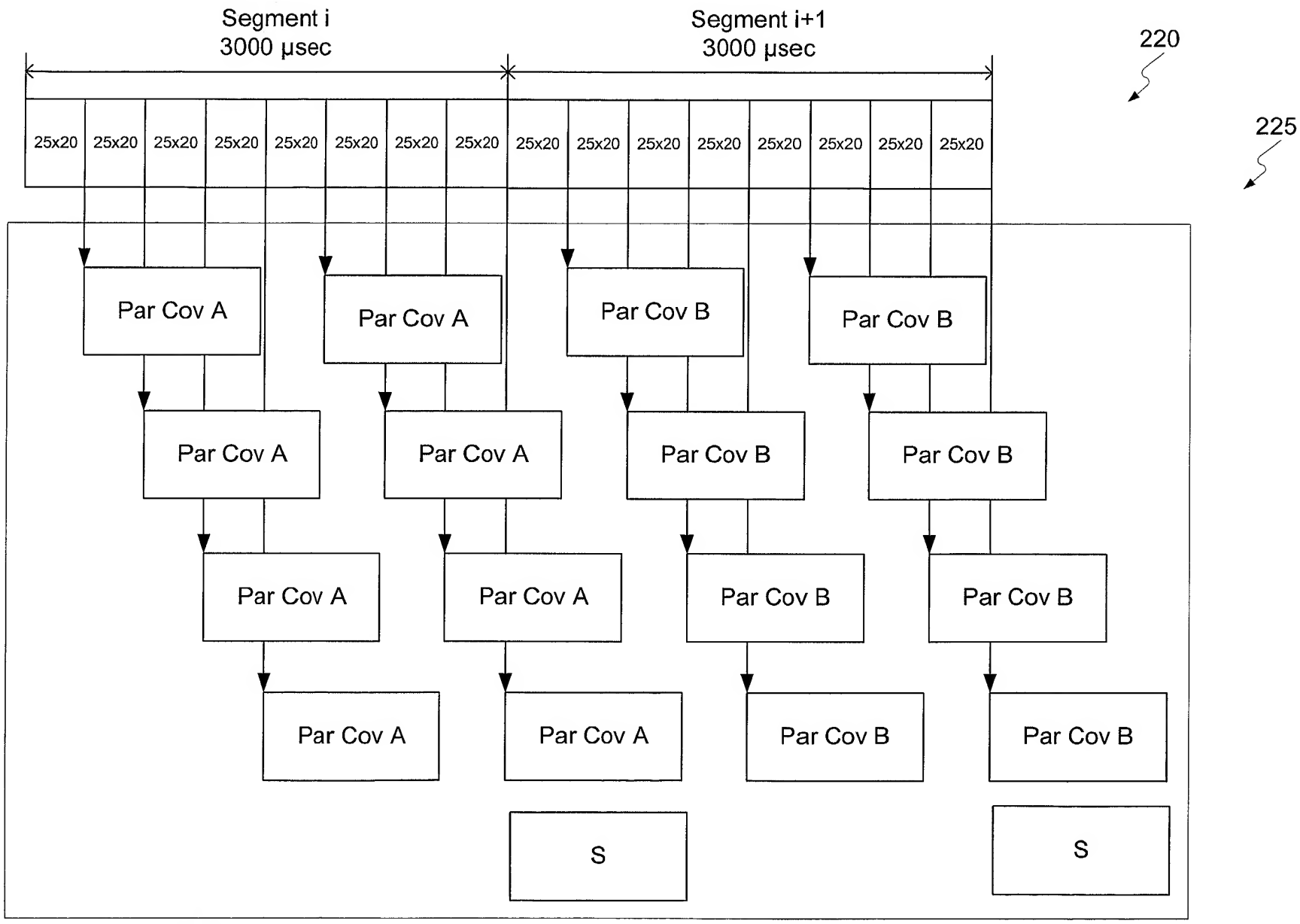

Segment i
3000 µsec
Segment i+1
3000 µsec
220
225
25x20
Par Cov A
Par Cov B
S

Fig. 5